

09818875-080701

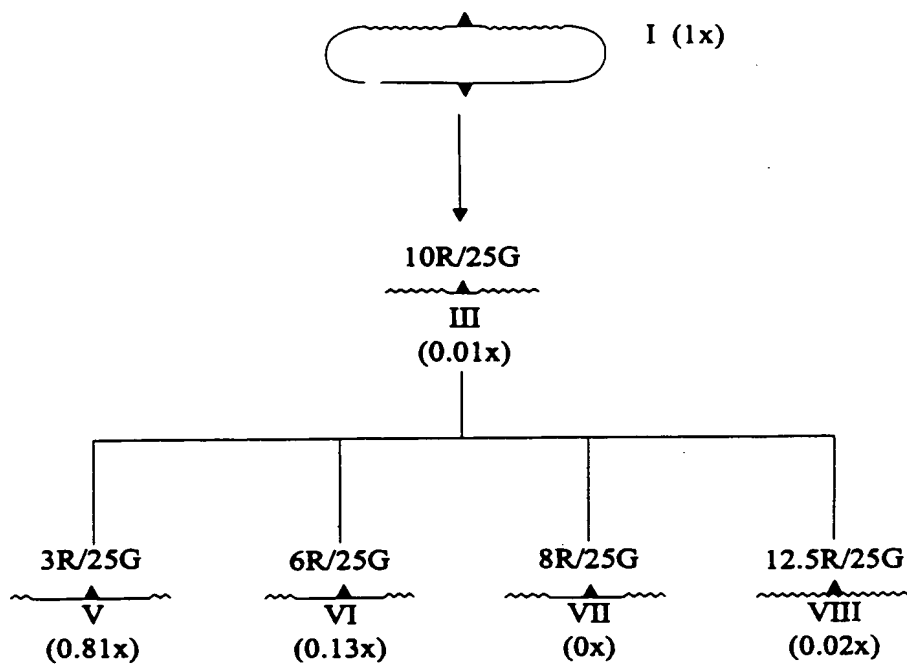


Figure 1A

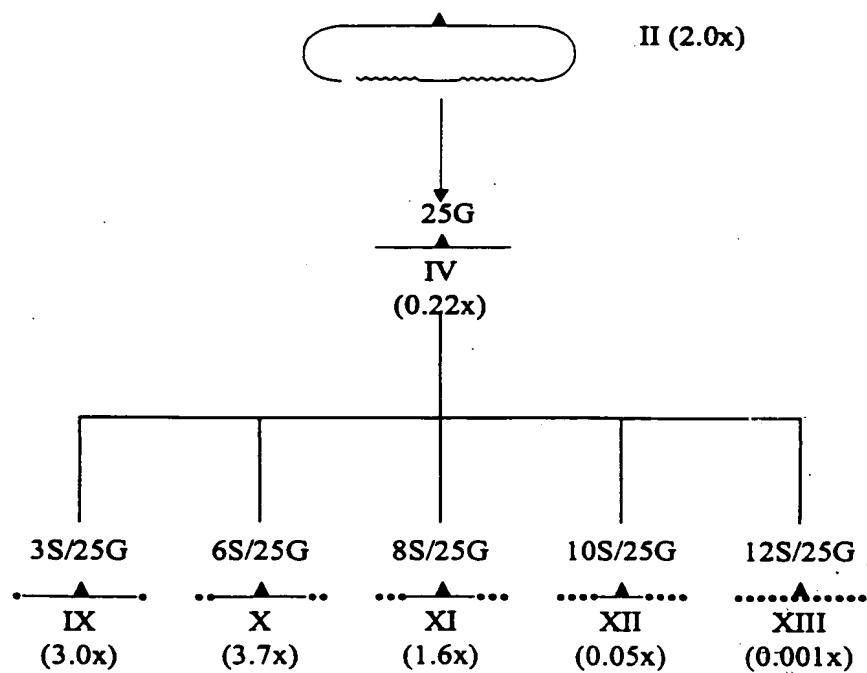
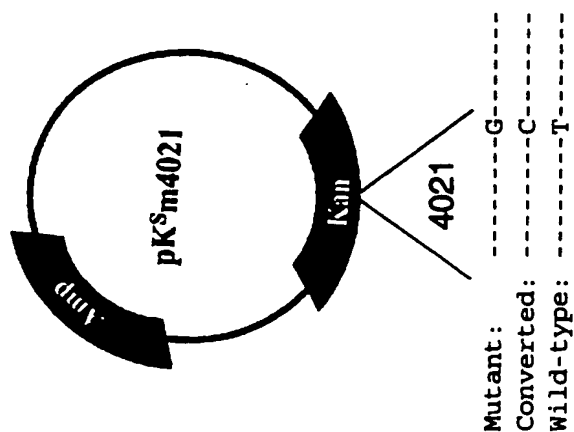
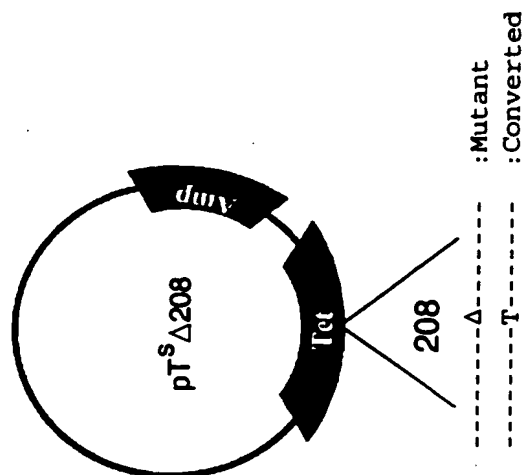
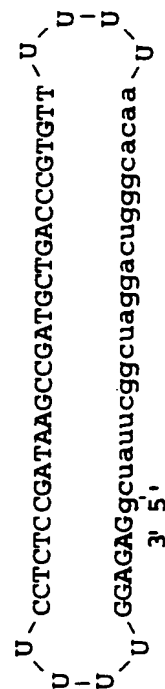


Figure 1B

Plasmids, DNA targets and chimeric oligonucleotides



KanGG



TetΔ208T

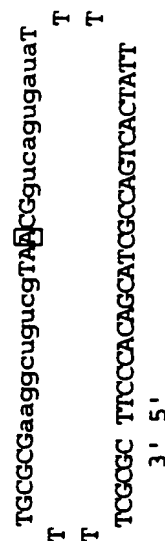
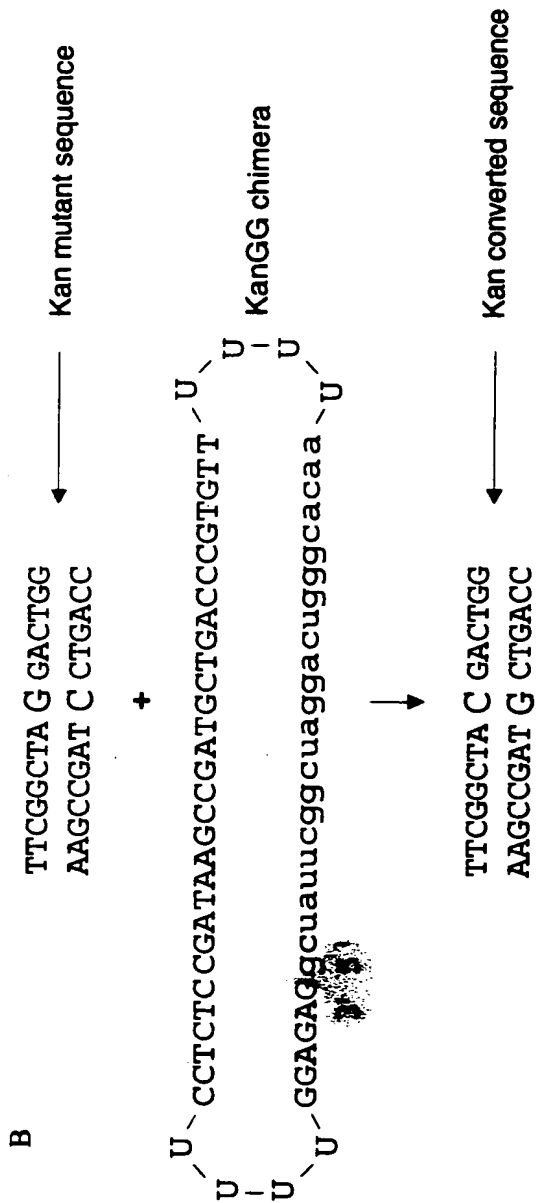


Figure 1C



DNA SEQUENCE ANALYSES

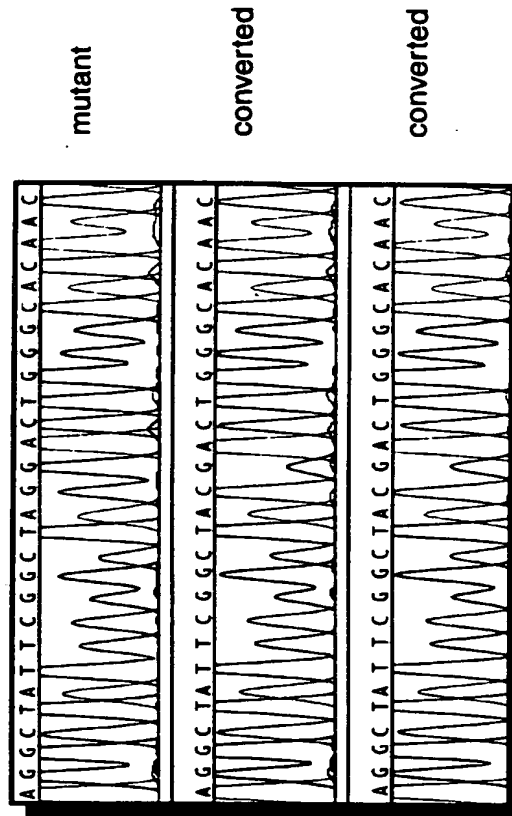


Figure 1D

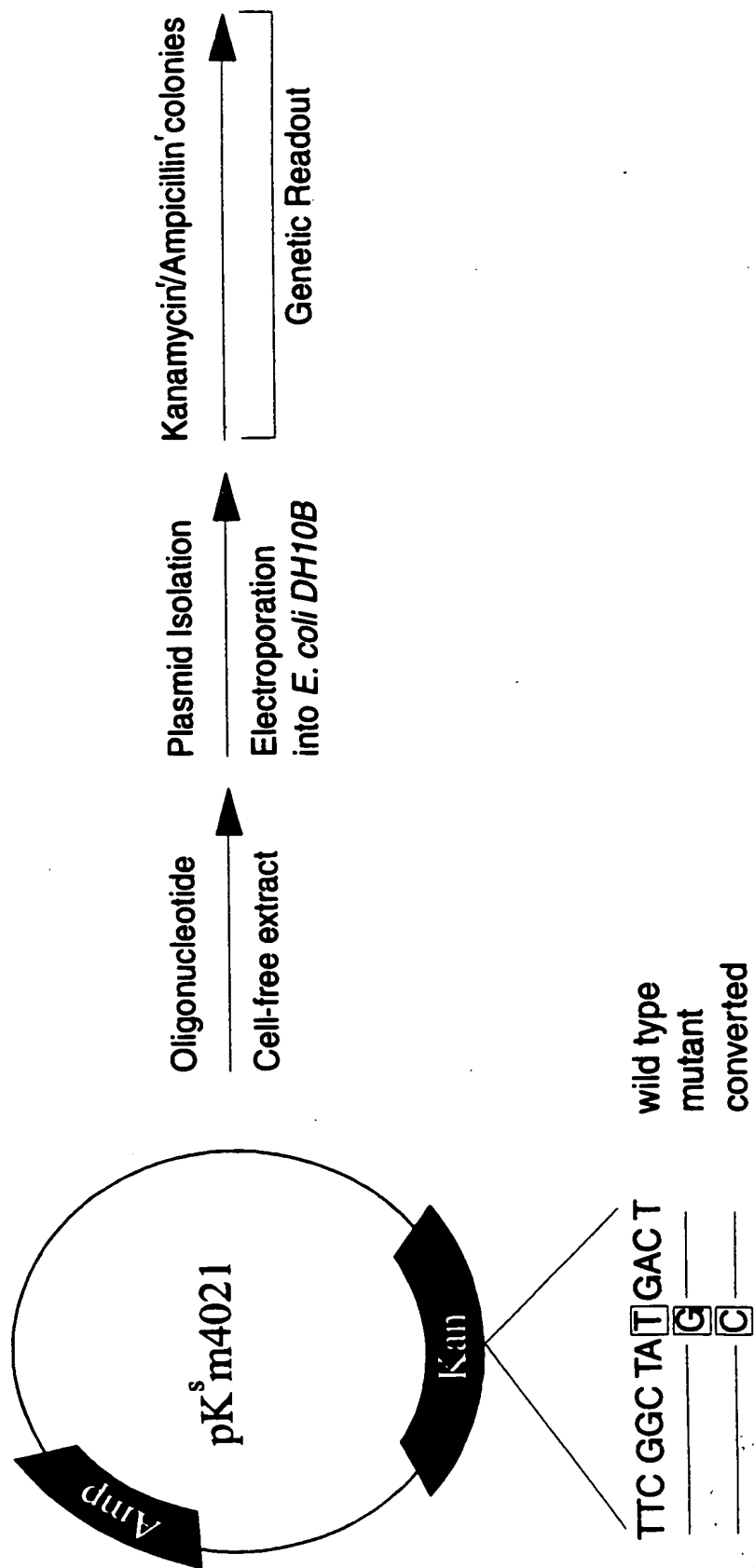
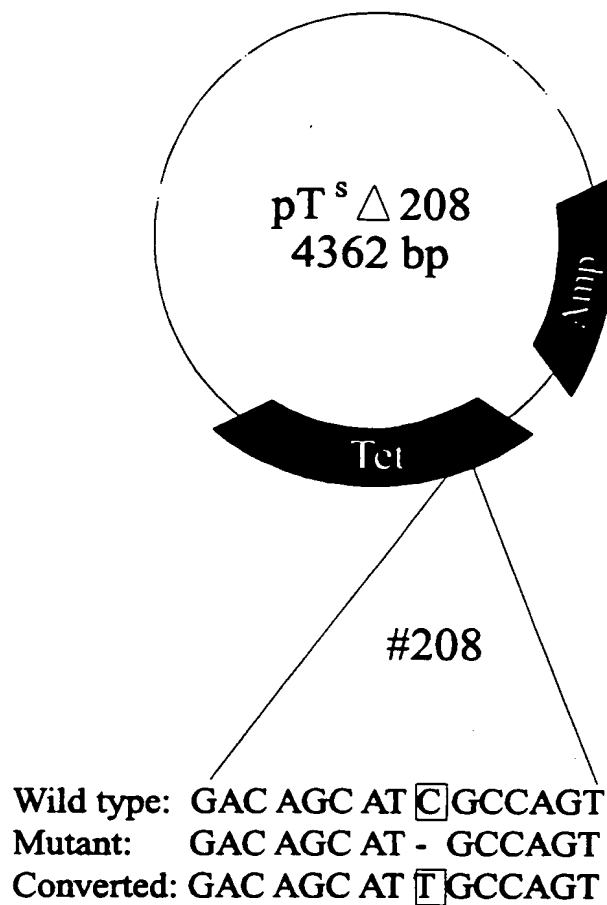


Figure 2

09182752881860



Sequence analysis of Tet^r plasmid Δ208

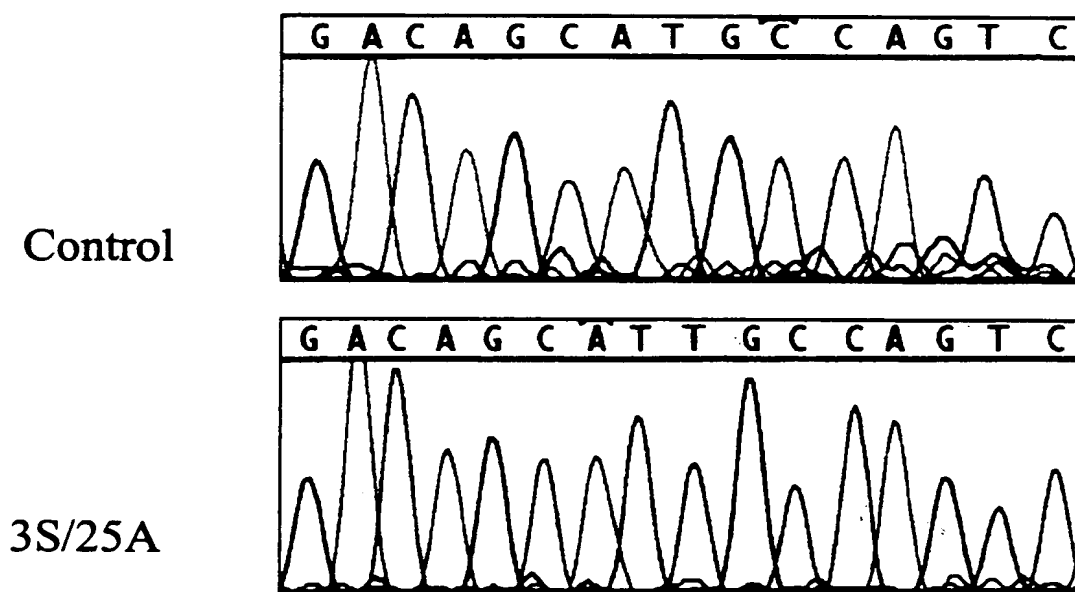
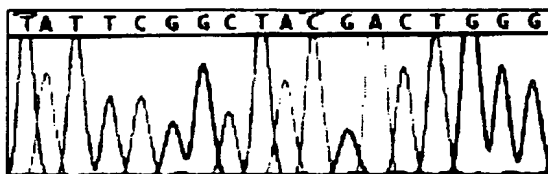


Figure 3

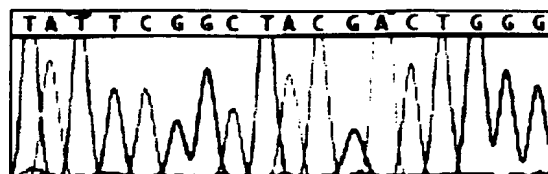
DNA sequence analysis of Kan^r plasmids

Target codon distribution					
oligomer	TAG	TAC	TAC/TAG	TGG	TCG
1) 3S/25G (20)	----	+	----	----	----
2) 6S/25G (20)	----	+	----	----	----
3) 8S/25G (20)	----	+	----	----	----
4) 10S/25G (18)	----	+	----	+(2)	+(2)
5) 25S/25G (4)	----	----	+(2)	+(2)	----

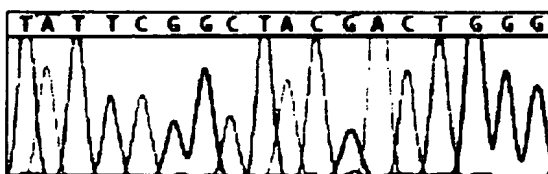
3S/25G



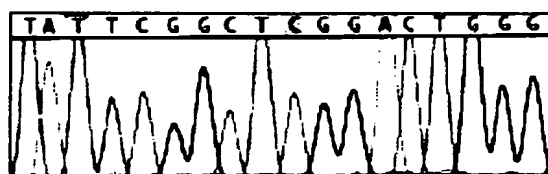
6S/25G



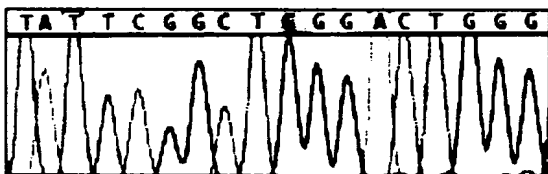
8S/25G



10S/25G



25S/25G



25S/25G

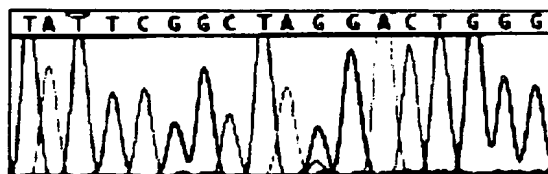


Figure 4

091835.03074
T02030.52881860

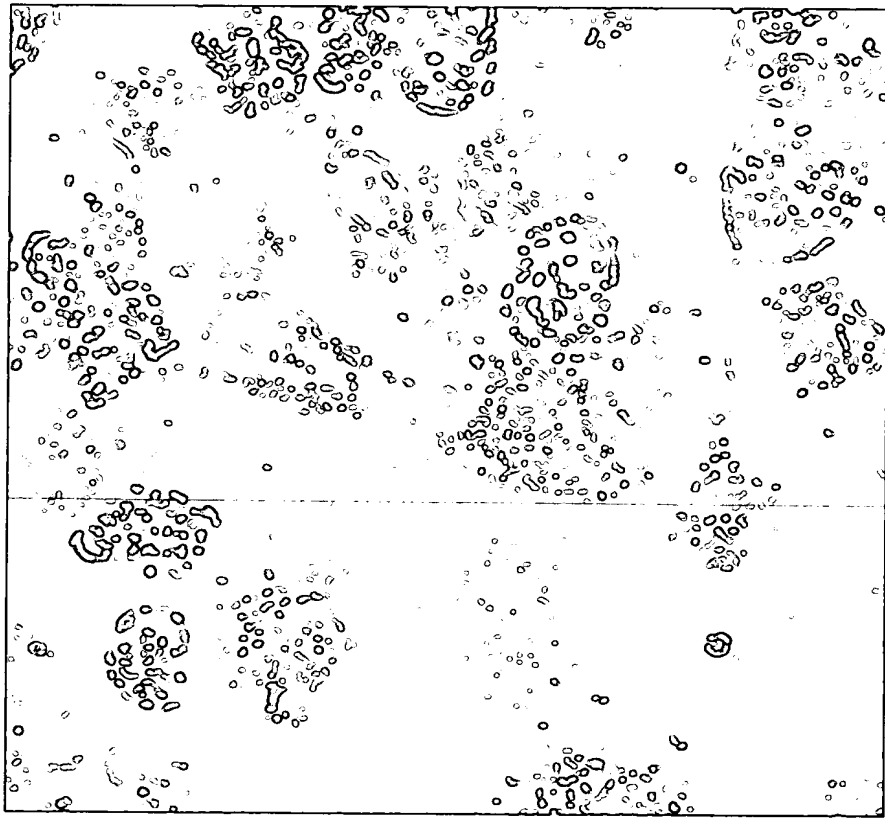


Figure 5

09616375-030701

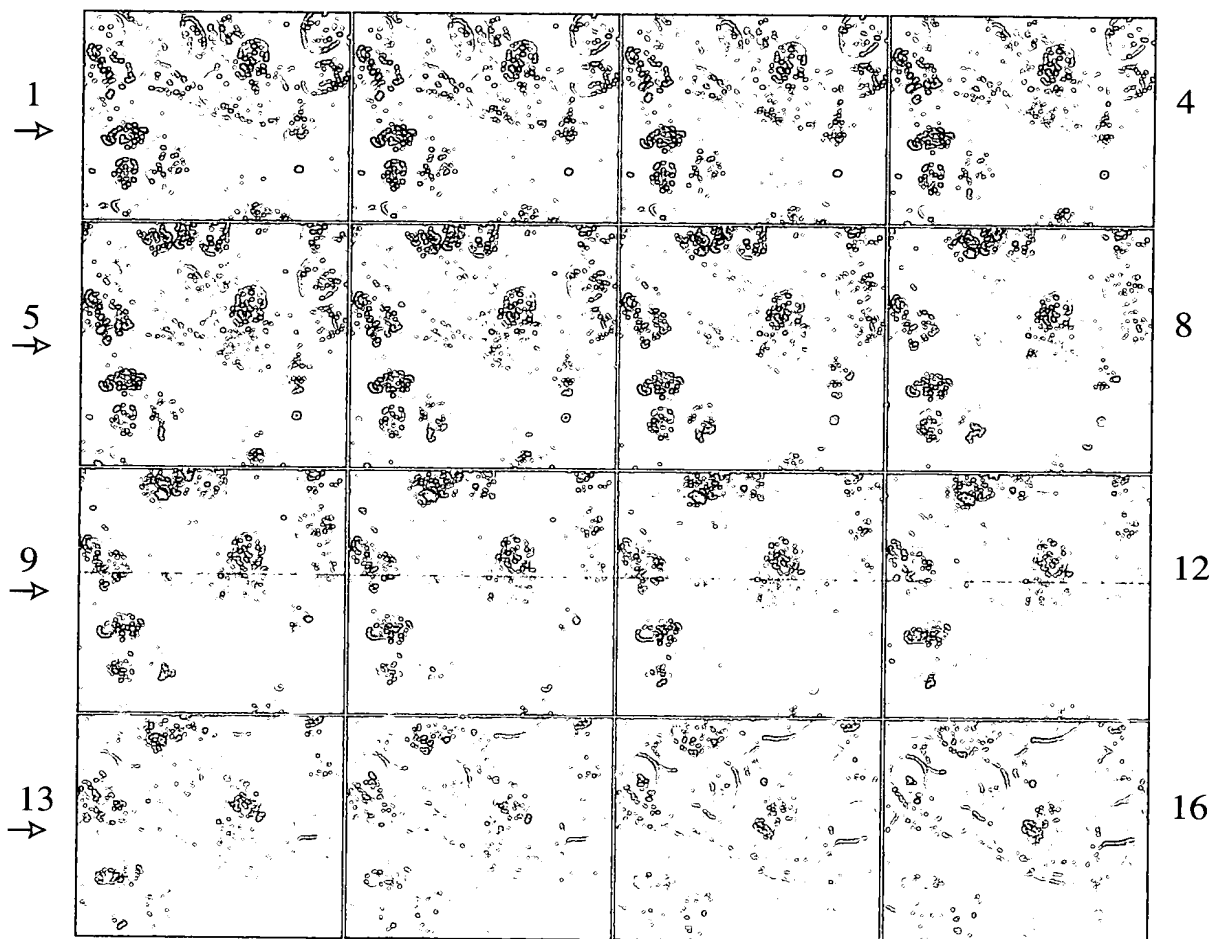
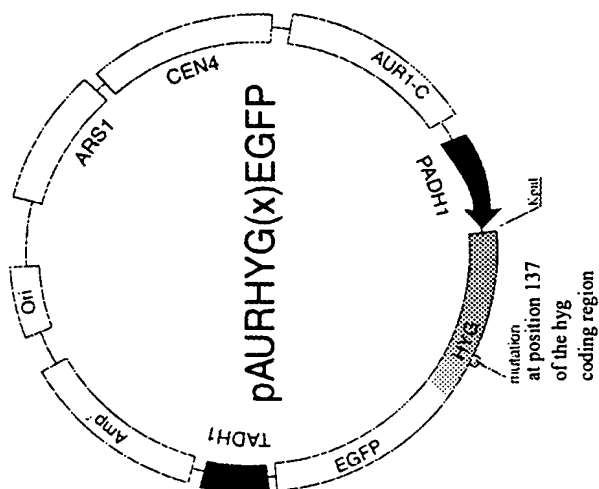


Figure 6

T04080" 5438T860

Sequence of normal allele: GTGGATATGTCCT
 Target/existing mutant: GTGGATAATGTCCT
 Desired alteration: GTGGATACGTCCT

Figure 7A



Sequence of normal allele: GTGGATATGTCCT
 Target/existing mutant: GTGGATAGGTCCT
 Desired alteration: GTGGATACGTCCT

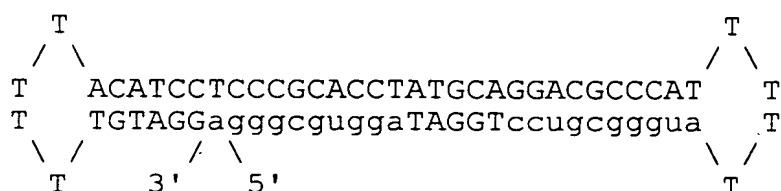
Figure 7B

HvgE3T/25: 5'-AGG GCG TGG ATA CGT CCT GCG GGT A-3'

HvgE3T/74: 5'-CTC GTG CTT TCA GCT TCG ATG TAG GAG GGC
GTG GAT ACG TCC TGC GGG TAA ATA GCT GCG
CCG ATG GTT TCT AC-3'

HvgE3T/74α: 5'-GTA GAA ACC ATC GGC GCA GCT ATT TAC CCG
CAG GAC GTA TCC ACG CCC TCC TAC ATC GAA
GCT GAA AGC ACG AG-3'

HvgGG/Rev:

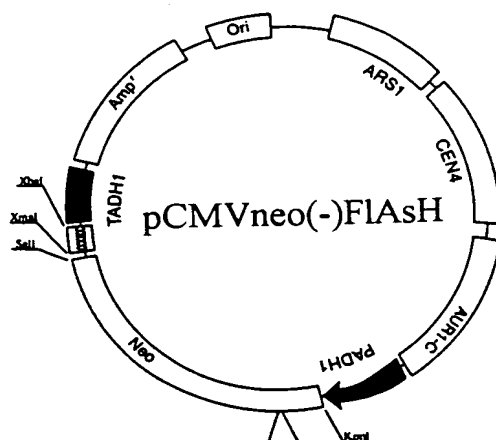


Kan70T: 5'-CAT CAG AGC AGC CAA TTG TCT GTT GTG CCC AGT
CGT AGC CGA ATA GCC TCT CCA CCC AAG CGG CCG GAG
A-3'

Figure 8

09818875.080701

09818875-080701



TTCGGCTA G GACTGG
AAGCCGAT C CTGACC

Neo/kan target
mutant



TTCGGCTA C GACTGG
AAGCCGAT G CTGACC

converted

FUSION GENE FOR LIGAND BINDING

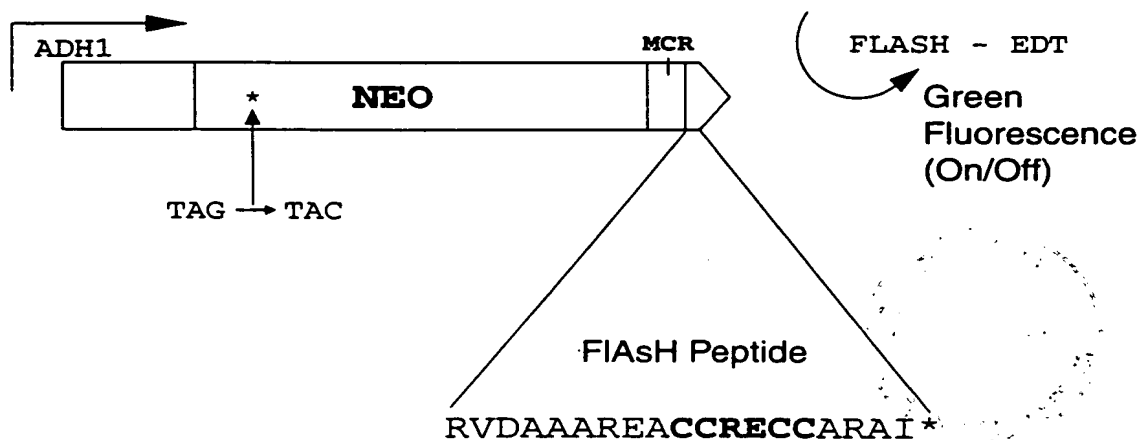


Figure 9

09848675.080701

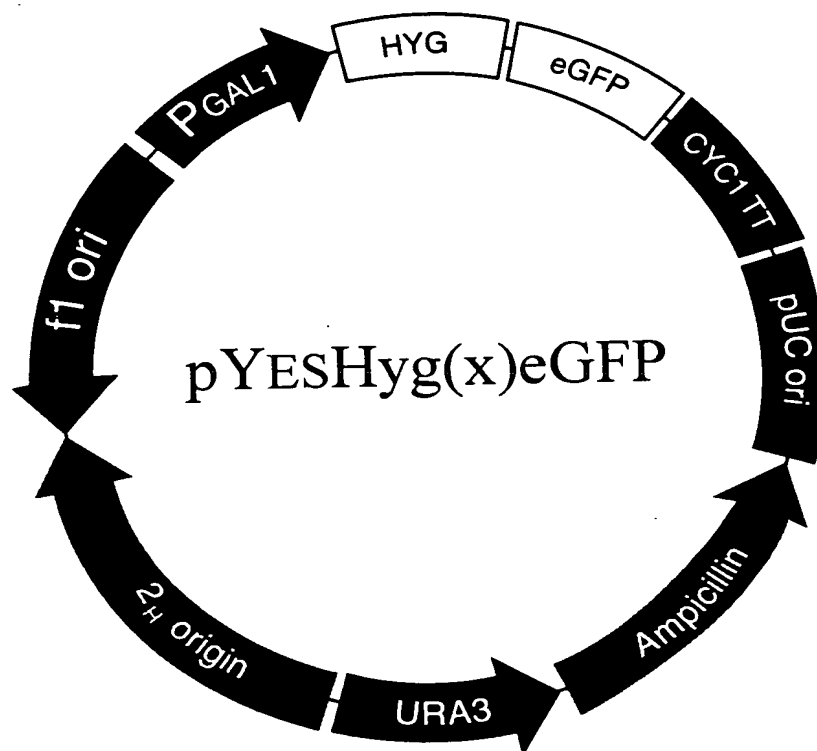


Figure 10